

Appl. No. 09/911,297
Amdt. Dated August 5, 2005
Reply Final Rejection of June 15, 2005

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the applications:

Listing of Claims

Claim 1 (cancelled)

Claim 2 (currently amended) An integrated customer premise system for connection to both an external analog telephone network and to a digital packet network for conducting to a customer's audio equipment both analog telephone calls from the external analog telephone network and voice-over-packet (VoP) telephone calls from the digital packet network in the same customer premise system, said system comprising

an analog call processor,

an analog interface connecting the analog telephone calls from the external analog telephone network to said analog call processor,

a VoP call processor,

~~an~~ a digital interface for connecting the VoP telephone calls from the external packet network to said VoP call processor;

a plurality of customer audio devices for use in either an analog telephone call from the external analog telephone network or a digital VoP telephone call from the external packet network, and

a switching and bridging system connected to said analog call processor and said VoP call processor for connecting one or both of said analog and digital VoP telephone calls to said customer audio devices.

Claim 3 (previously added) The integrated customer premise system in accordance with claim 2 wherein said digital interface provides one of LAN functionality and modem functionality.

Claim 4 (previously added) The integrated customer premise system in accordance with claim 2 wherein said analog interface includes an analog front-end and a digital access and said digital interface includes a digital front-end and a communications protocol controller.

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Claim 5 (previously added) The integrated customer premise system in accordance with claim 4 wherein said switching and bridging system includes an analog switch and bridge, an audio codec, and a digital switch and bridge.

Claim 6 (previously added) The integrated customer premise system in accordance with claim 5 wherein said switching and bridging system further includes a plurality of echo cancellers.

Claim 7 (currently amended) ~~The~~ An integrated customer premise system in accordance with claim 6 for connection both to an external analog telephone network and to a digital packet network for conducting both analog and voice-over packet (VoP) telephone calls in the same customer premises system, said system comprising

an analog call processor,

an analog interface connecting telephone calls from the external telephone network to said analog call processor,

a VoP call processor,

a digital interface for connecting VoP telephone calls from the external packet network to said analog call processor,

a plurality of customer audio devices for use in either an analog telephone call from the external analog telephone network or a digital telephone call from the external packet network, and

a switching and bridging system connected to said analog call processor and said VoP call processor for connecting one or both of said analog and digital VoP telephone calls to said customer audio devices, said switching and bridging system including an analog switch and bridge, an audio codec, a digital switch and bridge, and a plurality of echo cancellers and

wherein said echo cancellers include forward echo cancellers.

Claim 8 (currently amended) ~~The~~ An integrated customer premise system in accordance with claim 5 for connection to both an external analog telephone network and to a digital packet network for conducting both analog and voice-over-packet (VoP) telephone calls in the same customer premise system, said system comprising

an analog call processor,

an analog interface connecting telephone calls from the external analog telephone network to said analog call processor,

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a VoP call processor,

a plurality of customer audio devices for use in either an analog telephone call from the external analog telephone network or a digital VoP telephone call from the external packet network, and

a switching and bridging system connected to said analog call processor and said VoP call processor for connecting one or both of said analog and digital VoP telephone calls to said customer audio devices, said switching and bridging system including an analog switch and bridge, an audio codec, and a digital switch and bridge and

wherein said analog switch and bridge includes switch elements connected to individual of said customer audio devices and adder elements interconnecting said customer audio devices and said digital switch and bridge includes switch elements and adder elements interconnecting said analog ~~telephony~~ call processor and said VoP ~~telephone~~ call processor.

Claim 9 (currently amended) ~~The~~ An integrated customer premise system ~~in accordance with claim 5 for connection to both an external analog telephone network and to a digital packet network for conducting both analog and voice-over-packet (VoP) telephone calls in the same customer premise equipment, said system comprising~~

an analog interface connecting telephone calls from the external analog telephone network to said analog call processor,

a VoP call processor,

a digital interface for connecting VoP telephone calls from the external packet network to said VoP call processor,

a plurality of customer audio devices for use in either an analog telephone call from the external analog telephone network or a digital VoP telephone call from the external packet network, and

a switching and bridging system connected to said analog call processor and said VoP call processor for connecting one or both of said analog and digital VoP telephone calls to said customer audio devices, said switching and bridging system including an analog switch and bridge, an audio codec, and a digital switch and bridge and

wherein said audio codec interconnects said analog switch and bridge and said digital switch and bridge.

Claim 10 (currently amended) ~~The~~ An integrated customer premise system ~~in accordance with claim 5 further comprising for connection to both an external analog telephone network and to a digital packet network for conducting both analog and voice-over-~~

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packet (VoP) telephone calls in the same customer premise system, said system comprising

an analog call processor,

an analog interface connecting telephone calls from the external analog telephone network to said analog call processor,

a VoP call processor,

a digital interface connecting VoP telephone calls from the external packet network to said VoP call processor,

a plurality of customer audio devices for use in either an analog telephone call from the external analog telephone network or a digital VoP telephone call from the external packet network,

a switching and bridging system connected to both said analog call processor and said VoP call processor for connecting one or both of said analog and digital VoP telephone calls to said customer audio devices, said switching and bridging system including an analog switch and bridge, an audio codec, and a digital switch and bridge, and

customer input/output devices and an application controller connected to said input/output devices and to said analog telephony call processor and said VoP telephony call processor

Claim 11 (previously added) The integrated customer premise system in accordance with claim 8 wherein a plurality of VoP telephone calls are transmitted simultaneously and received through said digital front end and said VoP call processor, said VoP call processor including a speech compressor and decompressor.

Claim 12 (previously added) The integrated customer premise system in accordance with claim 8 further comprising a plurality of analog interfaces connected to said analog call processor.

Claim 13 (cancelled)

Claim 14 (currently amended) ~~The In combination, in accordance with claim 13 wherein~~

an integrated customer premise system for connection to both an external analog telephone network and to a digital packet network for conducting both analog and voice-over-packet (VoP) telephone calls in the same customer premise system, said system comprising

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a digital processor including an analog call processor, a VoP call processor, and a command response processor;

interfaces connecting telephone calls from the external analog telephone network to said analog call processor and for connecting VoP telephone calls from the external packet network to said VoP call processor;

a plurality of customer audio devices; and

a switching and bridging system connected to said analog call processor and said VoP call processor for connecting one or both of said analog and digital telephone calls to said customer audio devices; and

a computing device connected to said command response processor, whereby said computing device obtains access to said digital packet network through said command control processor, said computing device includes including a host controller connected through an interface to said command control processor.

Claim 15 (currently amended) ~~The~~ In combination, in accordance with claim 13 wherein

an integrated customer premise system for connection to both an external analog telephone network and to a digital packet network for conducting both analog and voice-over-packet (VoP) telephone calls in the same customer premise system, said system comprising

a digital processor including an analog call processor, a VoP call processor, and a command response processor,

interfaces connecting telephone calls from the external analog telephone network to said analog call processor and for connecting VoP telephone calls from the external packet network to said VoP call processor,

a plurality of customer audio devices; and

a switching and bridging system connected to said analog call processor and said VoP call processor for connecting one or both of said analog and digital telephone calls to said customer audio devices, and

a computing device connected to said command response processor, whereby said computing device obtains access to said digital packet network through said command control processor, and said computer device includes including a digital interface connected to the external packet network and said interface for connecting VoP telephone calls from the external packet network to said VoP call processor includes said computer device.